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Concentrated suspension of precipitated silica, processes for its preparation and uses of this suspension.

ABSTRACT

The invention relates to an aqueous suspension of precipitated silica, characterized in that its solids content is between 10 and 40 % by weight, its viscosity is lower than 4×10^{-2} Pa.s at a shear rate of 50 s^{-1} and the quantity of silica present in the supernatant obtained after centrifuging the said suspension at 7500 revolutions per minute for 30 minutes represents more than 50 % of the weight of the silica present in the suspension. The particle size distribution of the agglomerates in suspension is such that their median diameter D_{50} is smaller than $5 \mu\text{m}$ and the deagglomeration factor F_d is greater than 3 ml.

This suspension can be employed for the production of anticorrosion coatings and for the preparation of concretes, of paper or of inorganic adhesives.

Figure: none